SIGAL, M.Z.

Experimental studies on conditioned blood pressure and respiratory reactions. Zhur. vys. nerv. deiat. 4 no.3:415-423 My-Je *54.

(MLRA 8:2)

1. Kazanskiy gosudarstvennyy institut dlya usovershenstvovaniya vrachey imeni V.I.Lenina.

(BLOOD PRESSURE, physiology, conditioned reactions) (RESPIRATION, physiology, conditioned reactions) (REFLEX, CONDITIONED,

blood pressure & resp. conditioned reactions)

SIGAL, M.Z., kandidat meditsinskikh nauk, assistent; CHIZHOVA, B.I., assistent

Reactions of epidermodermal grafts to roentgen irradiation. Vest. rent. i rad. no.5:33-37 S-0 *54. (MLRA 7:12)

l. Is kafedry rentgenologii (sav. prof. M.Eh. Faysullin) i enkologicheskago otdeleniya (sav. saslushennyy deyatel' nauki prof. Yu.A.Ratner) kafedry khirurgii Kazanskogo instituta usovershenstvovaniya vrachey imeni V.I.Lenina.

(ROMNTON RATS, effects, on skin grafts) (SKIN TRANSPLANTATION, eff. of x-ray on skin grafts)

```
Methods of obtaining punctate from tumors for cytological examination. Klin. med., 33 ao.10: 82-83 0 '55. (MERA 9:2)

1. Iz otdeleniya onkologii kafedry khirurgii Kasanskogo GIDUV imeni V.I. Lenina (sav.--sasluzhennyy deyatel' mauki prof. Yu.A. Ratner) (HEOTIASMS, diagnosis cytol. exam., methods of puncture) (GYTOLOGY, cytodiag. of neoplasms, methods of puncture)
```

SIGAL, M.Z. (Kazan', ul. brat'yev Petryayevykh, d. 18, kv. 2)

是一个人,我们就是一个人,我们们也不会的一个人的人,我们是我们是我们的人,我们们就是一个人的人,我们们就是我们的人,我们是我们的人,我们们的人,我们们也不是我们的

A radio-surgical method, including free skin transplantation, in the treatment of skin cancer. Vop. onk. 5 no.1:79-83 '59. (MIRA 12:3)

1. Iz kafedry khanrgii i onkologii (zav. - zaslushennyy deyatel' nauki prof. Yu. A. Ratner) Kazanskogo gosudarstvennogo instituta usovershenstvovaniya vrachey imeni V.I. Lenina.

(SKIN NEOPIASME, therapy, radiocobalt with surg. tumor excis. & skin transpl. (Rus))

(COBALF, radioactive, ther, of skin cancer, with surg. tumor excis. & skin transpl. (Rus))

(SKIN TRANSPLANTATION, in var. dis. cancer, with radiocobalt ther. (Rus))

SIGAL, M. Z., (Kazan', Sibirskiy trakt, d. 26, kv. 20)

Prevention of cicatricial stenosis in anastomoses with the esophagus. Grud. khir. 4 no.1:84-86 Ja-F 62. (MIRA 15:2)

1. Iz kafedry khirurgii i onkologii Kazanskogo Gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni V. I. Lenina (zav. - zasluzhennyy deyatel nauki prof. Yu. A. Ratner)

(ESOPHAGUS_SURGERY) (CICATRICES)

SIGAL, M.Z., dotsent; KABANOV, K.V., inzhener

Dilator lever for the arci costarum. Vest.khir. no.8:106-108
161. (MIRA 15:3)

1. Iz kafedry khirurgii i onkologii (zav. - prof. Yu.A. Ratner) Kazanskogo instituta usovershenstvovaniya vrachey im. V.I. Lenina. (SURGICAL INSTRUMENTS AND APPARATUS)

SIGAL, M.Z., dotsent

Extirpation of the gustric stump following surgery for cancer. Kaz. med. zhur. no.2:31-34 Mr-Ap '62. (MIRA 15:6)

1. Kafedra khirurgii i onkologii (zav. - prof. Yu.A. Ratner) Kazanskogo Gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni V.I. Lenina. (STOMACH--CANCER) (STOMACH--SURGERY)

SIGAL, M. J. (Kazan', Tatarskaya ASSR, ul. Sibirskiy trakt, c. 26, kv. 20)

Transillumination, a mained for the diagnosis of cacter of the stomach in laparotomy. Vop. onk. 8 no.12:3-13 '62.

i. Iz kafedry khirurgli i onkologii (zav. - prof. Yu.t. Ratner) Kazanskogo gosudarstvennogo instituta diya usovershenstvovaniya vracney imeni Lenina (rektor - prof. I.V. Panilov.

SIGAL, M.Z., dotsent

Difficulties and errors in the diagnosis of pathological changes in the stomach in laparotomy. Kaz. med. zhur. no.l: 85-91 Ja-F¹⁶³. (MIRA 16:8)

1. Kafedra khirurgii i onkologii (zav. - prof. Yu.A.Ratner) Kazanskogo gosudarstvennogo instituta usovershenstvovaniya vrachey imeni Lenina. (AEDOMEN-SURGERY) (STOMACH-DISEASES)

SIGAL, M.Z., dotsent

Transillumination examination of the stomach wall in laparotomy. Kaz. med. zhur. no.3:18-21 My-Je'63. (MIRA 16:9)

1. Kafedra khirurgii i onkologii (zav. - prof. YU.A.Ratner) i kafedra topograficheskoy anatomii i operativnoy khirurgii (zav. - prof. N.I.Komarov) Kazanskogo gosudarstvennogo instituta dlyn usovershenstvovaniya vrachey imeni Lenina.

(ABDOMEN — SUMGERY)

Signi, M. 7. (Nazani, Sibirskiy troki, c.77, km. 30)

Transillumination examination in surgery on the estimagur.

Grud. khir. 5 no. 5:64-67 S-0 163. (MIPA 17:8)

1. Iz kafedry khirurgii i onkologii (zur. - prof. Yu.i. Rotner)

Kazanskogo instituta usovershenstvovaniya vvashey.

SIGAL, M.Z., dotsent; KHAMIDULLIN, Z.G. (Kazzant)

Pathogenesis of extensive depostition of calcium in the soft tissues. Probl. endok. i gorm. 9 no.5:78-81 S-0'63 (MIRA 16:12)

l. Iz kafedry onkologii (zav. - zasluzhennyy deyatel nauki RSFSR prof. Yu.A. Ratner) Kazanskogo instituta usovershenstvevaniya vrachey imeni V.I.Lenina.

SIGAL, Moyshe Zel'manovich; DEKHTYAL!, Ye.G., red.

[Transillumination in surgery on the stomach] Transilliuminatsiia pri operatsiiakh na zheludke. Moskva, Meditsina, 1964. 187 p. (MIRA 17:6)

SIGAL, M.Z., dotsent (Kazan', ul. Sibirskiy trakt, 23, kv.38)

Examination of blood vessels of the stomach by transilluminating its wall during surgery. Vest. khir. 92 no.2:113-114 F'64.

(MIRA 17:9)

1. Iz kafedry khirurgii i chkologii (zav.- prof. Yu.A. Rather) i kafedry topograficheskoy anatomii i operativnoy khirurgii (zav.-prof. N.I. Komarov) Fazanskego instituta usovershenst-vovaniya vrachey imeni V.I. Lenina (rektor. dotsent Kh.Z. Akhunzyanov).

33403. Fekhaniray Stsepleniya Avtomobiley YeAz. Avto obil', 1:49, No. 10, c. 16-10.

S0. Letopis' Zhurnal'nykh Statey, Vol. 45, Foskva, 1949

USSR/Medicine, "dibasel" - Drugs

SIGAL, N. N.

"Dynamics of the Electrocardiogram in Hypertonia and Angina Pectoris Patients Treated with Diberol," N. N. Sigal (Kasan').

Klinisheskaya Mediteina, No 1, Vol 31, pp 51.-55

Dibasol is an efficacious spasmolytic and hypotensive preparation producing lasting therapeutic action. Effectiveness of dibasol in treatment of angina pectoris and of hypertensive especially when the higher nervous activity is involved, proves that it acts on the central nervous system. At the present time this proparation is used successfully in treatment, during the restorative period of policycolitis, toxic mononeuritis, neuritis, etc. The most typical deflections of electrocardiogram, after a course of extended treatment with dibasol, are normalisation of rhythmical frequency, contraction of the Arise that had been disposed below the insertective weather than the secondary symptoms.

Mode of action of dibazole. Vrach.delo no.2:201-203 F '58.

(MIRA 11:3)

1. Zheleznodorozhnaya klinicheskaya bol'nitsa.
(BENZIMIDAZOLE)

Dibazol therapy of angine pectoris. Sov.med. 22 no.11:36-41
N'58

1. Iz Kazanskoy zheleznodorozhnoy klinicheskoy bol'nitsy (nachal'nik
N.A. Abramov, nauchnyy rukovoditel' raboty - prof. L.M. Rakhlin).

(ANGINA PECTORIS, ther.

dibazol (Rug))

(MUSCLE RELAXANTS, ther. use

dibazol. in angina pectoris (Rug))

```
Treatment of coronary insufficiency and hypertension with dibesol.

Elin.med. 36 no.3:55-58 Mr '58. (MIRA 11:4)

1. Iz Ezzanskoy zheleznodorozhnoy klinicheskoy bol'nitay (rukovoditel' raboty - zasluzhennyy deyatel' nauki Taterskoy ASEP

prof. L.M.Rakhlin)

(GRENNET DISEASES, ther.

dibasol (Rus))

(HYPERTENSION, ther.

dibazol (Rus))

(MUSCLE RELAIANTS, ther. use

dibazol in coronary insuff. & hypertension (Rus))
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POTEKHIN, D.Ye., dotsent; SIGAL, K.E., kand. med. nank

Comparative evaluation of the rate of spread of the pulse wave in patients with a herosclerosis and rheumatic fever. Kaz. med. zhur. no.6:28-29 N-D 163.

(MIRA 17:10)

1. Filial kafedry gospits. I'noy terapii (zav. - prof. A.G. Teregulov) Kazanskogo meditsinskogo instituta i laboratoriya funktsional'noy diagnostiki 6-y gorodskoy klinicheskoy hol'nitsy (glavnyy vrach - Ye.V. Khmelevtseva), Kazan'.

CIA-RDP86-00513R001550520016-6" APPROVED FOR RELEASE: 08/23/2000

GONCHAROV, B.V., kand.tekhn.nauk; DFMIN, N.Ye., inzh.; SIGAL, S.B.; TROYANOVSKIY, Yu.V.

Mounted equipment for placing concrete in foundations. Stroi. i dor. mash. 10 no.2:3-4 F *65. (MIRA 18:3)

IL'IN, I.V.; KURYLEVA, N.A.; POPUGAYEVA, L.A.; SIGAL, Ya.B.

Chrysolites of Yakutian kimberlite pipes as precious stones for the jewelry industry. Razved. i okh. nedr 24 no.2:8-9 F 158.

(MIRA 11:4)

l. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut.
(Yakutia--Chrysolite)

New crane for rural construction. Mekh.stroi. 19 no.3:27-29
Mr '62. (Cranes, derricks, etc.)

SIGAL, Ye.S., zasluzhenny; vrach FOFSR

Methodology for drainage of the subcutaneous cellular tissue.

Sov. med. 27 no.2:138-139 P *64. (MIRA 17:10)

1. Bug-d'minskaya gorodskaya bol'nitsa (glavnyy vrach L.M. Hikhaylov).

KHASIS, G.L., kandidat meditsinskikh nauk.; SIGAL, Ye.S. (Burul'ma)

In vivo diagnosis of dissecting aortic ansurysm. Klin. med. 34 (MIRA 9:5)

1. Iz terapevticheskogo otdeleniya (zav.G.L. Khasis) Bugul'minskoy gorodskoy bol'nitsy.

(ACRTIC ANEURYSMS
dissecting, diag. during lifetime)

SIGAL, Ye.S. (Bugul'ma, Tatarskoy SSR)

Multiple peculiar disorder of heart rhythm with symptoms of Adams-Stokes disease. Vrach. delo no.3:305 Mr *57 (MLRA 10:5)

1. Vtoroye terapevticheskoye otdeleniye (zav.-Ye.S. Sigal)

Bugul'minekoy gorodskoy bol'nitsy (nauchnyy rukovoditel'-zasl.

deyatel' nauki, prof. L.M. Bakhlin)

(HEART--DESMASES)

SIGAL, Ye.S.; KHASIS, G.L., kandidat meditsinskikh nauk

Glinical aspects of acute disseminated lupus erythematosus. Sov.med. 21 no.5:134-135 My '57. (MIRA 10:7)

1. Iz 2-go terapevticheskogo otdeleniya (sav. Ye.S.Sigal) Bugul'minskoy gorodskoy bol'nitsy (glavnyy wrach Ya.G.Pavlukhin).

(LUPUS ERYTHEMATOSUS, DISSEMINATED, case reports
clin. aspects)

KHASIS, G.L.; SIGAL, Ye.S.

Clinical aspects of rheumatic thrombovasculitis. Terap. arkh. 32
(MIRA 14:1)
no. 2:24-30 F 160.
(THROMEOSIS) (RHEUMATIC HEART DISEASE)

SIGAL, Ye.S.

Problem of the so-called aortic arch syndrome. Terap.arkh. 32 (MERA 14:1) no.9880-86 *60.

1. Iz Bugul'minskoy gorodskoy bol'nitsy (glavnyy vrach G.G.
Kovalenko, nauchnyy rukovoditel' - prof. L.M. Pakhlin, konsultant - prof. Ya.L. Rappoport).

(AORTA—DISEASES)

Treatment of acute renal failure. Sow. med. 25 no.9:110-111 S '61.

(NI:M 15:1)

1. Iz Bugul'minskoy gorodskoy bol'nitsy (glavnyy vrach A.A.Dedyukhin).

(KIDNETS_DISEASES)

SIGAL, Ye.S., sasluzhennyy vrach RSFSR

进的处理制度和影响的主要的。 的现在分别是是这种问题是是自己的主题的是不是是这种的, 的

Stand for heart auscultation and simultaneous visual observation of phases of the cardiac cycle. Kaz.med.zhur. no.5:87 S-0 '62. (MIRA 16:4)

1. Bugul'minskaya gorodskaya bol'nitsa (glavnyy vrach = A.A.Dedyukhin, nauchnyy rukovoditel' = prof. L.M.Rakhlin).

(AUSCULTATION) (HEART—SOUNDS)

SIGAL, Ye.S., zasluzhennyy vrach RSFSR

Significance of the phenomenon of sound interference in the appearance of a strong first tone in some rhythm disorders.

(MIRA 15:9)
Kardiologiia 2 no.4:71-75 J1-Ag 162.

1. Iz Bugul'minskoy gorodskoy bol'nitsy (glavnyy vrach A.A. Dedyukhin, nauchnyy rukovoditel' - prof. L.M.Rakhlin).

(ARRHYTHMIA) (HEART-SOUNDS)

SIGAL, Ye.S., zasluzhennyy vrach RSFSR (Byul'ma)

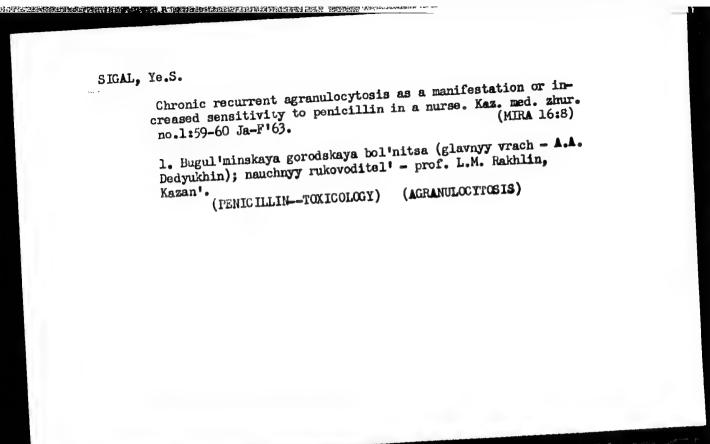
Hallucinatiory syndrome as a sign of the side effects of butadione.

(MIRA 15:12)

Klin.med. no.9:152-153 62.

1. Iz butul minskoy gorodskoy bol nitsy (glavnyy vrach A.A. Dedyukhin).

(HALLUCINATIONS AND ILLUSIONS) (BUTADIONE)



MYSLYAYEVA, A.V., kand. med. nauk; ZAKHVATKINA, I.A.; SVERDLOV, S.L.;

ANDREYEV, I.D., dotsent; GENADINNIK, I.S., kand. med. nauk;

KUZNETSOV, A.A., NIKOLAYEVA, G.V., prof.; SILAKOVA, V.V., dotsent;

SHAMLYAN, N.P.; PRIDMAN, M.N., dotsent; GORBYLEV, M.N.; SIGAL,

Ye.S., zasluzhennyy vrach RSFSR; KHOLOPOVA, L.N.; GABOV, A.A.;

LILEYEV, V.A.; MAKAREVICH, Ya.A., Kand. med. nauk; SHELEPIN, A.S.;

SHMELEV, M.M.; PEVZNER, G.I.; SILAYEV, Yu.S.

Abstracts. Sovet. med. 27 no.6:140-145 Je:63 (MIRA 17:2)

l. Iz kafedry propedevtiki mutrannikh bolezney i patologicheskoy anatomii Kazakhskogo meditsinskogo instituta (for Myslygova,
Zakhvatkina). 2. Iz Novozybkovskoy mezhrayonnoy bol'nitsy
Bryanskoy oblasti (for. Sverdlov). 3. Iz kafedry normal'noy
anatomii II Moskovskogo meditsinskogo instituta (for Andreyev).
4. Iz kafedry obshchey khirurgii i kafedry rentgenologii
Chelyabinskogo meditsinskogo instituta (for Genadinnik, Kuznetsov). 5. Iz kafedry propedevticheskoy terapii Ivanovskogo
netsov). 5. Iz kafedry propedevticheskoy terapii Ivanovskogo
meditsinskogo instituta (for Nikolayeva, Silakova). 6. Iz
Lovozerskoy rayonnoy bol'nitsy Murmanskoy oblasti (for Shamlyan).
7. Iz kafedry pospital'noy terapii Bashkinskogo meditsinskogo
instituta i terapevticheskogo otdeleniye say bol'nitsy (for

(Continued on next card)

SIGAL, Ye.Ya. (Vinnitsa)

Gase of iodine tincture poisoning. Vrach.delo no.6: 19 Je 159.

(MIRA 12:12)

1. Vinnitskaya oblastnaya kiinicheskaya bol'nitsa (nauchnyy rukovoditel' - prof. B.S. Sakiyar).

(IODINE--TOXIGOLOGY)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550520016-6

SIGAL, Ye, Ya.; SLEPCHENKO, Z.S.

Zimnitskii's test in diseases of the cardiovascular system. Vrach.
(MIRA 14:4)
delo no. 1:43-46 '61.

1. Terapevticheskoye otdeleniye (zav. otdeleniyem - prof. B.S.
Shklyar) Vinnitskoy oblastnoy bol'nitsy imeni Pirogova.
(CARDIOVASCULAR SYSTEM-DISEASES)
(CARDIOVASCULAR SYSTEM-DISEASES)
(URINE-ANALYSIS AND PATHOLOGY)

REBROV, A.S., inzh. [deceased]; USFENSKIY, V.P., inzh.; PLESHKOV,

D.I., kand. tekhn. nauk; BELEN'KIY, V.I., inzh.;

BERNADSKIY, G.I., inzh.; VALUTSKIY, I.I., inzh.; BAZANOV,

A.F., kand. tekhn. nauk; KOGAN, I.Ya., kand. tekhn. nauk;

RATNER, A.I.; VOROB'YEV, A.A., inzh.; BAUMAN, V.A., kand.

tekhn. nauk; NOSENKO, N.Ye., kand. tekhn. nauk; FOKIN,

M.V., inzh. [deceased]; VINOGRADOV, G.V., inzh.; GUSAKOV,

M.V., inzh.; SUDAKOVICE, D.I., inzh.; Prinimali uchastiye:

M.A., inzh.; SUDAKOVICE, D.I., inzh.; OGIYEVICH, V.Ya.,

SIGAL', Ya.Ye., inzh.; TITOV, M.A., inzh.; OGIYEVICH, V.Ya.,

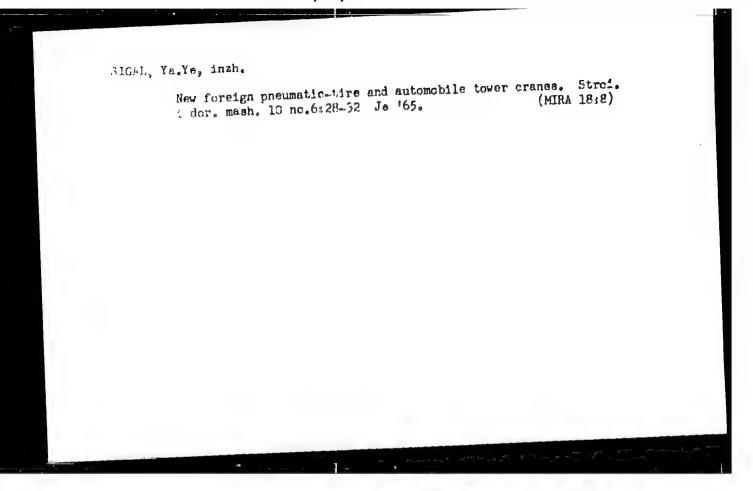
kand. tekhn. nauk; ZIMIN, P.A., kand. tekhn. nauk, retsenzent;

kand. tekhn. inzh., retsenzent; PETROV, N.M., kand. tekhn.

nauk, retsenzent; RYAKHIN, V.A., kand. tekhn. nauk, retsenzent;

zent; KHOLIN, N.A., inzh., retsenzent

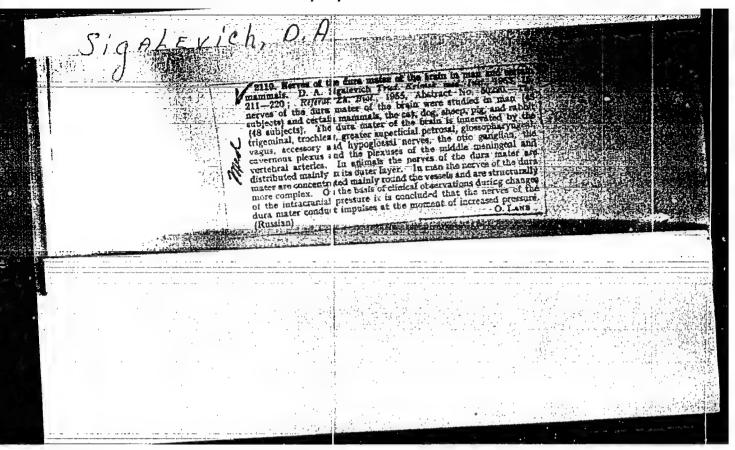
[Construction machinery; a reference manual] Stroitel'nye mashiny; spravochnik. Izd.3., perer. i dop. Moskva, Mamashiny; spravochnik. Izd.3., perer. i dop.



SIGAL, Ya.Ye., lnzh.

KP-40 tower crane. Strol. i dor. mash. 8 no.1:3-6 Ja '63.

(MIRA 18:5)



Material on the innervation of the sciatic nerve in man. Arkh
anat. gist i embr. 38 nc. 6:64-69 Je 160. (MIRA 13:12)

1. Kafedra normal'noy anatomii (zav. - prof. V.V. Bobin) Krymskogo meditsinskogo instituta imeni I.V. Stalina. (SCIATIC NERVE)

SIGALEVICH, D.A.

Viktor Vladimirovich Bobin; on his 70th birthday and 45 years in medicine and teaching. Arkh. anat. gist. i embr. 39 no. 12:117119 '60.

(BOBIN, VIKTOR VLADIMIROVICH, 1890-)

SIGALEVICH, D.A. (Simferopol', ul. Chekhova, 17, kv.7)

Innervation of the peripheral nerves. Arkh.anat.,gist. i embr. (MIRA 18:2) 46 no.5:66-76 My 64.

l. Kafedra normal'noy anatomii (zav. - prof. V.V.Bobin) Krymskogo meditsinskogo instituta, Simferopol'.

SIGALIN, A.

2362
Sigalin A. Automatic Work Tempo Control in Continuus System
Production Organisation.
Automatyczna kentrola tempa pracy w potokowym systemie orga-

Automatyczna kontrola tempa pracy w potokowym systemiejorganizacji produkcji. Przeglad Techniczny. No. 1, 1953, pp. 14-17

Pulish Technical Abst. No. 4, 1953 Turbnics and Economics Analysis of the essentials of continous work organisation. Review of the signal boards designed by Slawinski (Poland) for use in Sugar works. The signal boards are provided with three types of measuring devices—technological parameter indicator, temperature indicator and working temp indicator. Readings taken on the signal board make it possible to remedying immediately any irregularities in the operation of any particular production unit. All continues work processes can be controlled by means of an automatic signal lamp system. Sundessful attempts have, moreover, been made to transmit the automatic work tempo control signals over considerable distances, by means of a shortwave wireless transmitter.

SIGALIN, A.

Technical progress in the food industry during ten years of People's Poland. (To be contd.) p. 229. (PRZEMYSL BOLNY I SPOZYWCZY, Vol. 8, No. 7, July 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

STGALIN, A.

Conferences on engineering problems in the food industry. p.91

PRZEMYSL SPOZWCZY. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Przemyslu Spozywszego) Warszawa, Poland Vol.9, no.3, Mar. 1955

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.1, Jan. 1960 Uncl.

SIGALIN, ...

The plan for the development of industry is a plan for the reduction of production cost.

p. 266, Vol. 9, no. 7, July 1955. FRZEMYSL SPOLYWZY. Warszawa.

SO: East European Accessions List, (LAL), IC, Vol. 5, no. 2, Feb. 1956

SIGALIN, A.

SIGALIN, A. Struggle against difficulties resulting from the organization and introduction of new technology in the food industry., p. 225.

Vol. 10, no. 6, June, 1956 PRZEMYSŁ SPOZYWCZY TECHNOLOGY Warsaw, Poland

So. East Accession Vol. 6, no. 2, Feb. 1957

SIGALIN A.

		•
Symposi	um on Electroncoustic Transducors POL/	5981
36.	Underwater piezoelectric electroacoustic transducer with flat frequency response from 100 Hz to 100 kHz. Zygmunt	a
	Nagiello	353
37.	Splitting of ultrasonic pulse in magnetostrictive trans-	***
	ducors fed by overvolting systems. Jerzy K. Skrzela	361
38.	Calibration exciter for checking accelerometers. Per V.	
	Bruel	375
39.	Calibrator for phonograph pickups. Zygmunt Komornicki	379
40.	Non-reflecting piezoelectric probe and equipment for mea	sur-
	ing ultrasonic field intensities in fluids. J. Karpinsk	i and
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41.	Investigation of the bases of ultrasonic generation in a	
	flow-type equipment. Boleslaw Lesnick	393
42.	Ultrasonic hydrogenerators. C. Wachtl, A. Sigalin, and	
	E. Karczmarczyk	401
43.	Particular case of mechanoplectric transducer applied to	401
	steel construction testing. Stefan Ziemba and Jersy Kas	inski 405

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Source: Proceedings of the Symposuim on Eleftroacoustic Transducers (held in)
Krynica, 17-26 September, 1958. Warsaw, Panstwowe Wydawnictwo Naukowe, 1961. 142.

SIGALIN, Jozef

General contest for the plan of two bridges on the Wisla River in Warsaw, the "Lazienki" and "Swietokrsyski" bridge. Architektura Pol no.11/12:461-469 '61.

SIGALIN, YU.

20365 SIGALIN, YU. Vosstanovlemiye varshavy. Magistral' vostok-zarad. Arkhitektura i stroit-vo, 1949, No. 5, s. 22-24.

SO: LETGLIS ZHULMAL STATEY, Vol. 27, Moskva, 1949

SIGALIN-KROTOWSKA, Anna

Arteriovenous cholangiography. Wiadomosci lek. 8 no.3:121-124 Mar 55.

(BILIARY TRACT, radiography, cholangiography, arteriovenous)

NATAPOV, B.S.; BARZIY, V.K.; OL'SHAN; TSKIY, V.Te.; Prinimali uchastiye: FILONOV, V.A., inzh.; YUDIW, M.I., inzh.; IOFFE, M.M., inzh.; POPOV, S.M., inzh.; RYBALKO, G.I., inzh.; ODINETS, L.I., inzh.; SIGALKO, F.V., inzh.; TSIVIRKO, D.Ye.; VOLOSHCHUK, M.D., inzh.

Heat treatment of cold-rolled sheet metal. Stal 22 no.2:163-165 F 162. (MIRA 15:2)

1. Zaporozhskiy mashinostroitel'nyy institut i savod
"Zaporozhstal". 2. Zavod "Zaporozhstal" (for Filonov,
Yudin, Ioffe, Popov, Mybalko, Odinets). 3. Zaporozhskiy
mashinostroitel'nyy institut (for Sigalko, TSivirko, Voloshchuk).

(Sheet steel—Heat treatment)

L 29258-66 SCTB - DD

ACC NR: AP6019362

SOURCE CODE: RU/0012/65/061/006/0973/0979

AUTHOR: Sigall, S. (Lieutenant colonel; Doctor)

20 B

ORG: none

TITIE: Cupulometry, a new method in the selection and medical expert opinion of flying capacity

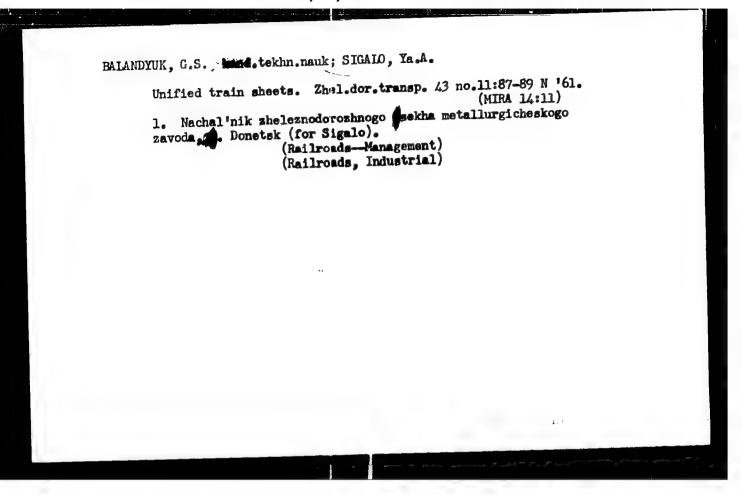
SOURCE: Revista sanitara militara, v. 61, no. 6, 1965, 973-979

TOPIC TAGS: aerospace personnel, aeronautic personnel, astronomic personnel, vestibular function

ABSTRACT: The author describes the techniques used in cupulometric (vestibular) tests, and the interpretation of the results to aid in the selection of flight personnel. For healthy aeronautic personnel primary and secondary adaptation to the tests is perfect; thus, their state of healthy can also be followed up by this means. Orig. art. has: 7 figures. [JPRS]

SUB CODE: 06, 05 / SUBH DATE: Olapr64 / ORIG REF: 002 / OTH REF: 003

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SIGALOV, A.B.

Cases of extrauterine pregnancy. Sov.med. 19 no.9:77-78 (MLEA 8:12)

1. Iz akushersko-ginekologicheskoy kliniki (sav.-prof. P.P. Sidorov) bol'nitsy imeni K. Ye. Boroshilova g Stalino (glavnyy wrach N.I.Lyutaya) (PREGNANCY, ECTOPIC, surg.)

Ways of lowering the rate of stillbirths. Sov.med. 21 no.2:35-41
F '57. (MLRA 10:6)

1. Is ekushersko-ginekologicheskoy kliniki (sav. - prof. P.P.Sidorov)
Stalinskogo meditsinskogo instituta (dir. - dotsent A.M.Genichkin)
(STILLBIRTH, prev. end control
in Russie)

SIGALOV, A.P.; SIGALOVA, Ye.A.

Role of histological tests for the early diagnosis of malignant neoplasms of the cervix and hody of the uterus. Sov.med. 21
Supplement:16 '57. (MIRA 11:2)

1. Iz akushersko-ginekologicheskoy kliniki Stalinskogo meditsinskogo institute.

(UTERUS-CALGER) (HISTOLOGY, PATHOLOGICAL)

Two cases of echinoceccosis of the female genitalia. Akush. 1
gin. 34 no.5:115-116 S-0 '58 (MIRA 11:10)

1. Iz akushersko-ginekologicheskoy kliniki (zav. - prof. P.P. Sidorov)
Stalinskogo meditsinskogo instituta na baze klinicheskoy bol'nitsy
imeni K.Ye. Voroshilova (glavnyy vrah H.I. Lyutaya).

(GYMECOLOGICAL DISEASES, case reports
echinococcosis (Rus))

(ECHINOCOCCOSI; case reports
female genitalia (Rus))

SIGALOV, A. B., Cand Med Sci --- (diss) "Problems of the symptomatology, diagnostics and treatment of pitients with malignant and potentially malignant tumors of ovaries." Stalino, 1959. 20 pp; (Stalinskiy State malignant im A. M. Gor'kiy); 250 copies; price not given; (KL, 25-60, 140)

SIGALOV, A.B.

Hypogalactia in parturients with cardiovascular diseases. Sov.med. (MIRA 13:4)

1. Iz akushersko-ginekologicheskoy kliniki (zaveduyushchiy - prof. P.P. Sidorov) Stalinekogo instituta (direktor - dotsent A.M. Ganich-kin).

(LACTATION)
(CARDIOVASCULAR DISEASES compl.)

SIGALOV, A.B., assistent

Immediate and remote results of operative treatment of malignant tumors of the ovaries. Akush. i gin. 35 no.3:106-109 My-Je (MIRA 12:8)

1. Iz akushersko-ginekologicheskoy kliniki (zav. - prof.P.P. Sidorov) Stalinskogo meditsinskogo instituta.

(OVARIES, neoplasms
surg., immediate & remote results (Rus))

LANDAU, Ya.M., dotsent; SIGALOV, A.B.; KARPUSHIN, V.P.; MIROSHNICHENKO, V.P.; RUDNEVSKIY, Yu.I.

Physiological blood less in the puerperal period of normal labor. Sov.med. 24 no.3:89-94 Mr '60. (MIRA 14:3)

l. Is akushersko-ginekologicheskoy kliniki (zav. prof. P.P.Sidorov) Stalinskogo meditsinskogo instituta (dir. - dotsent A.M.Ganichkin). (PUERPERIUM)

SHEYNIN, P.I.; SIGALOV, A.B.

Criteria for malignancy of the coma of the cvary. Vop.onk. 7 no.12:63-66 '61. (MIRA 15:1)

1. Iz kafedry patologicheskoy anatomii (zav. - doktor med.nauk dots. Ye.A. Dikshteyn) i kafedry akusherstva i ginekologii (zav. - doktor med.nauk prof. P.P. Sidorov) Donetskogo meditsinskogo instituta (dir. - dots. A.M. Ganichkin) na baze klinicheskoy bol'nitsy imeni M.I. Kulinina (glavnyy vrach - kand.med.nauk B.A. Shaparenko).

(OVARY-TUMORS)

SIGALOV, A. B.

Errors in the diagnosis of malignant tumors of the ovaries. Alcush. i gin. no.4:74-78 162. (MIRA 15:7)

(OVARI S-CANCER)

SIGALOV, A.B. (Donetsk, 66, ul. Pushkinskaya, d.80,kv.13); SOROKA, P.G. (Donetsk, 3, ul. Alma-atiuskaya, d.7,kv.7)

Thio-TEPA therapy of far idvanced malignant tumors of the ovaries. Vop. onk. 9 no.11:98-102 '63. (MIRA 18:2)

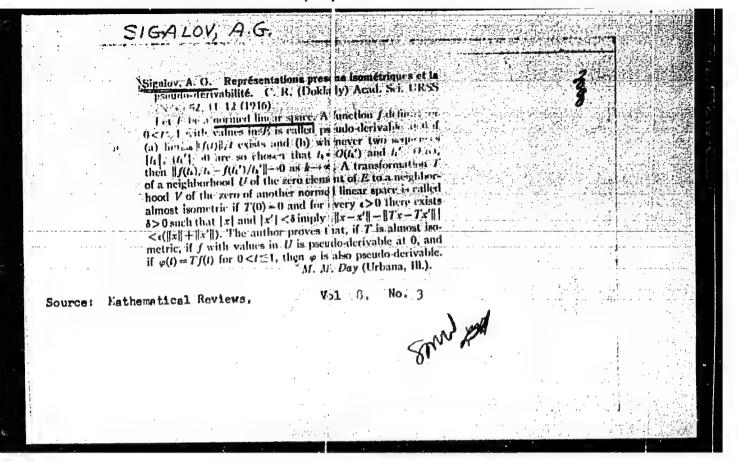
1. Iz kafedry akusherstva i ginekologii No.1 (ispolnyayushchiy obyazannosti zaveduyushchego kafedroy - dotsent V.P. Miroshnichenko, nauchnyy konsul'tant doktor med. nauk prof. P.P. Sidorov) Conetskogo meditsinskogo instituta (rektor - doktor med. nauk prof. A.M. Ganichkin) na baze Oblastnoy klinicheskoy bol'nitsy imeni M.I. Kalinina (glavnyy vrach - V.F. Zubko).

Differentsial no-ekvivalenthyre metrili. i., Dissertatsiya (1946).

S0: Nathematics in the USGR, 191/-1947
edited by Kurosh, A. G.,
Narkushevich, A. I.,
Rashevskly, P. K.,
Foscow-Leningrad, 1948

Forthi izono tricheshiye etobrazheniya i pseudodifforentsimyemost. Dan, 52 (1946), 11-12.

So: Mathematics in the UUSR, 1917-1947
edited by Eurosh, A. G.,
Earlushevich, 4. I.,
Rashevskiy, P. K.
Ebscow-Leningrad, 1948



SigaLov, A.C				set it by 1- #4 To 10		e de la constante de la consta
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"On the Doubl Inst. Mathema	e Integrals of tics, Moscow S	Computation of tate Univ. im M.	V. Lomonosov	the Paras (1946)	setric Form	2
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	Sigalov, A. G.	Sur les intégrales dou s la forme paramétrique	bles du calcul des , C. R. (Doklady)			
	Acad. Sci. UR The author di	SS (N.S.) 55, 383–386 (scusses lower semi-conti the integrand (which is	1947). inuity by consider-			į` ¿
	positively homo bivectors) on po he states genera	geneous, positive defini lyhedral approximatious lizes a theorem of T. R.	te function on the 3. The result which ado [Trans. Amer.			
	Math. Soc. 51, 3	36–361 (1942); these Re II. Federer (Pr	ev. 3, 229 J. rovidence, R. I.).	Some	JA J	:
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Sig 2/ov, A.G. Variety, A.G. On quasiregular de

Signlov, A. G. On quasiregular double integrals of the calculus of variations. Mat. Shornik N.S. 23(65), 127-158 (1948). (Russian)

If P(x, y, s, p, q) is continuous in all variables, nonnegative and convex in (p, q) for each (x, y, s), the integral $\iint_D F(x, y, f(x, y), f_s(x, y), f_t(x, y)) dxdy$ (where D is the square $0 \le x \le 1$, $0 \le y \le 1$) defines a functional on the class of surfaces absolutely continuous in the sense of Torelli. This functional is lower semi-continuous on the class of surfaces mentioned. On each surface of this class the value of the integral is the limit of its values on a sequence of polyhedra converging to the surface. It is not assumed that F has continuous derivatives; however, the semicontinuity theorem with F assumed convex is known to follow without great difficulty from the case in which F has continuous derivatives and is positive quasi-regular. The proofs do not require a knowledge of the theory of Lebesgue area. The results can also be obtained by specializing to nonparametric form certain known theorems on integrals in parametric form certain known theorems on integrals in parameters.

"APPROVED FOR RELEA		-	CIA	-RDP	86-0)0513R(01550	01550520016-6				
	these Rev. 3, 229; 4, 155] E. J. McShans.			The second secon								
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Sigalov. A. G. On the existence of an absolute minimum for double integrals of the calculus of variations. Dokisdy Akad. Nauk SSSR (N.S.) 71, 617-620 (1950). (Russian) Assume F(x, A) defined and continuous for all x in a neighborhood of the closure of a convex open set D1 and for all A, and to be positively homogeneous of degree 1 and convex in A for each fixed x. In the definition of admissibility in the preceding review the author now adds the requirement that T lie in \tilde{D}_{tr} and in the definitions of $\mu_0(L^2)$ and $\mu_0(P)$ he adds the requirement that every neighborhood of D_i contain almost all T_n . The conclusion of the existence theorem is asserted to remain valid. Two other theorems are stated asserting conditions which assure the existence of minimizing surfaces of small diameter. The contents of this note consist almost entirely of indications of the possibility of constructing a minimizing sequence satisfying the criterion of compactness stated in the preceding note. For T of finite Lebesgue area J(T) is defined to be the infimum of $\lim \inf J(T_n)$ for all sequences of surfaces of L^2 tending to T. This extension is shown to coincide with Cesari's integral Jc(T). E. J. McShane (Charlottesville, Va.).

Source: Nathematical Reviews, 1950 No. 8

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te minim 125 ir. para 15.) 70, 7	The theorem names in the last these notes the author indicates the main steps of its demonstration. Let K be the unit square $0 \le u'$, $u^3 \le 1$; let L^3 be the class of surfaces unit square $0 \le u'$, $u^3 \le 1$; let L^3 be the class of surfaces having representations $x = f(u)$ $(x = (x^1, x^2, x^3); u \in K)$ which having representations $x = f(u)$ $(x = (x^1, x^2, x^3); u \in K)$ which are absolutely continuous in the sense of Touelli and have finite Dirichlet integrals. The integrand $F(x, A)$ is assumed finite Dirichlet integrals. The integrand $F(x, A)$ is assumed defined and continuous for all (x^2) and all $A = (A^1, A^2, A^3)$, and is assumed positively homogeneous and convex in A for each fixed x . If $R = 1$ is represented by $f(u)$, with properties each fixed x . If $R = 1$ is represented by $f(u)$, with properties for each open x ; closed subset G of K , the integral G of K , the integral G of K , the integral G		M= sup $F(x,A) < -$, m= inf $F(x,A) > 0$. Then if admissible surfaces exist, there is an admissible surface exist, there is an admissible surface of $T(x) = \frac{1}{2} - \frac{1}{2} $	tying in G [this is the substitute definition stated in the note reviewed below]. Let G be the boundary of G . Let $H[I,G]$ denote the length of the image nucler f of the curve G in F for each region $G \subset K$ define, $O[I,G] = (I,G)/[I,G] = (H,G)/[I,G] = (H,G)/[I,G) = (H,G)/[I,G] = (H,G)/[I,G) = (H,G)/[I,G] = (H,G)/[I,G) = (H$	
Signlor, A. G. The elistence of an absolution of signlor, A. G. The elistence of an absolution of the calculus of Testishing for n. Doklady Akad. Nauk SSSR (N. 1950). (Russian)	In the concent name itself to be highly int indicates the main step unit square $0 \le \omega'$, ω' , ω' , and is a solutely continue are absolutely continue for itself and continuou and is assumed positive each fued x . If $1 \le L^2$ is to each open α .	figet((a), A)ds is d	Then if admissible on Then if admissible wirface 7 such that The lower semion E. J. McShane, An remains to exhibit a region G, define that set containing	tying in G [this is the reviewed below]. I denote the length for each region of the denominator of the difference of the wilf, G] the corresponding to the c	

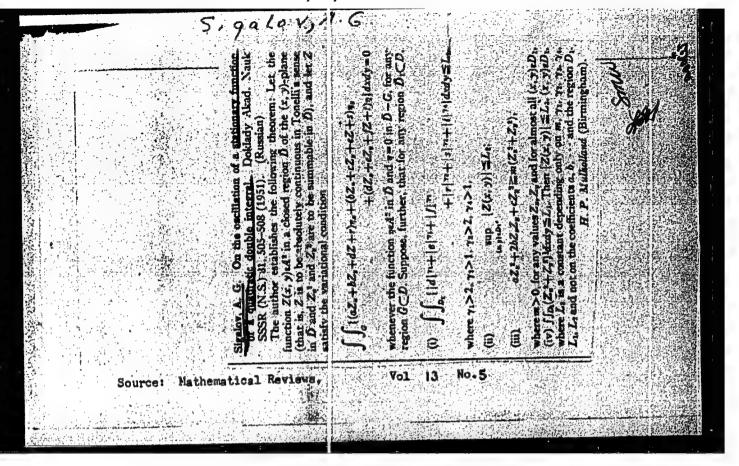
SIGALOV, A. G.

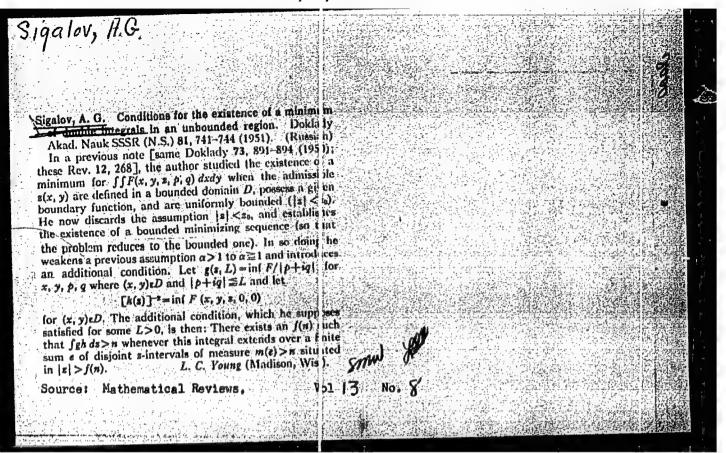
"Existence of Continuous Solutions of Two-Dimensional Regular Problems of Variational Calculus." Sub 15 Now 51, Mathematics Inst, Acad Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

SIGALCY, A. G.	UBSR/Mathematics - Calculus of Variations Mar/Apr (Contd) of Polyhedra; Revision of the Minimizing Sequence; Semicontinuity.	All results contained in the listed earlier. Signlow acknowledges assistance of lished earlier. Signlow acknowledges assistance of V. Plotnikov and Yu. Glebskiy. This report concerns v. Plotnikov and Yu. Glebskiy. This report concerns the problem of Plateau. Cf. G. Bliss, "The Calculus the problem of Plateau. Cf. G. Bliss, "The Calculus of Variations for Multiple Integrals, "Amer Machings: Exication of Convergent Subsequence form Convergence; Selection of Convergent Subsequence 18772.	eles Calculus of Varional Problems of the Calculus of the Calculus Signior
187752	nimizing Sequence;	This report concerns G Bliss, "The Calculus ntegrals, "Amer Math 77-89. Essdings: has- Parametric and Monpara- ral on a Surface; Uni-	alculus of Varia-





SIGALOV, A. G.

Calculus of Variations

Conditions of differentiability and analyticity of solutions of two-dimensional problems of the calculus of variations. Dokl. AN SSSR, 85, No. 2 1952.

Gives the conditions inposed on the integrand expression F (x,y,z;p,q) in the regular two-dimensional problem in nonparametric form, for the fulfilment of which conditions the continuous solution possesses the same properties of differentiability and analyticity as does the integrand expression. The basic results are reduced to a number of theorems involving the existence of solution. Presented by Acad M.A.Lavrent 1907 May 52.

9. Monthly List of Russian Accessions, Library of Congress, November 195%, Uncl.

Sigalov, A. G. Two-dimensional problems of the calculus of variations in nonparametric form. Trudy Moskov.

Mat. Obsc. 2, 201-233 (1953). (Russian)

The principal result of this paper, which is gotten by combining Theorems A and B below, was announced by Sigalov in a somewhat different form in a note in Doklady Akad. Nauk SSSR (N.S.) 73, 891-894 (1950); these Rev.

12, 268. He is concerned with integrals of the form

 $(f,D,F)=\int\int_{D}F(x,y,s,p,q)dxdy.$

Here D is a bounded region, s=f(x,y), $p=f_x$, and $q=f_x$. The boundary values of f(x,y) are prescribed and continuous, and f is required to belong to the class L_x ($\alpha \ge 1$) of continuous functions satisfying the two following conditions: (i) f(x,y) is AC in x for almost all y and vice versa; (ii) $\iint_D (f_x^2 + f_y^2)^{a/2} dx dy < \infty$. The boundary D' is "uniformly regular", that is, the diameters of its components are bounded from zero.

The author first states a theorem "in the bounded domain". Theorem A: Let F, F_s , and F_s be continuous, the Weierstrassian nonnegative, and suppose that for some positive m and for (p^3+q^4) large enough $F/(p^3+q^3) \ge m$. Suppose finally that the "approximation theorem" holds for F (see below). Then if there is an f in L_s taking on the

Mathematical Reviews May 1954 Analysis

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prescribed boundary values, satisfying $|f(x, y)| \le z_0$ on D, and yielding a finite value for (f, D, F), some f_0 in L_n minimizes (f, D, F) among all $f \in L_n$ with the bound z_0 and the prescribed boundary values.

The proof of Theorem A rests mainly on the author's regions of redefinition. Because F satisfies the approximation theorem, one can start with a minimizing sequence of piecewise linear functions. A region G with $G \subset D$ is fundamental if, for some c, G is a component of the set $\{f(x,y) < c\}$. G is a region of redefinition for the function f if G is fundamental and (f, G, F) > (c, G, F). Sigalov has proved elsewhere [Uspehi Matem. Nauk (N.S.) 6, no. 2(42), 16–101 (1951); see also Amer. Math. Soc. Translation no. 83 (1953), the theorem on p. 67; these Rev. 13, 257; 14, 769] that a piecewise linear minimizing sequence can be replaced by another, still piecewise linear, whose functions have no regions of redefinition. Hence for every fundamental region G_e associated with the value c of the function f_a we have $(f_a, G_e, F) \leq (c, G_e, F)$. Using this fact, the growth condition on F, and the compactness of the (x, y, z)-space, the author

sentation of G is normal and of type I and there exists a single group algebra on which all characters are defined (Theorem 8).

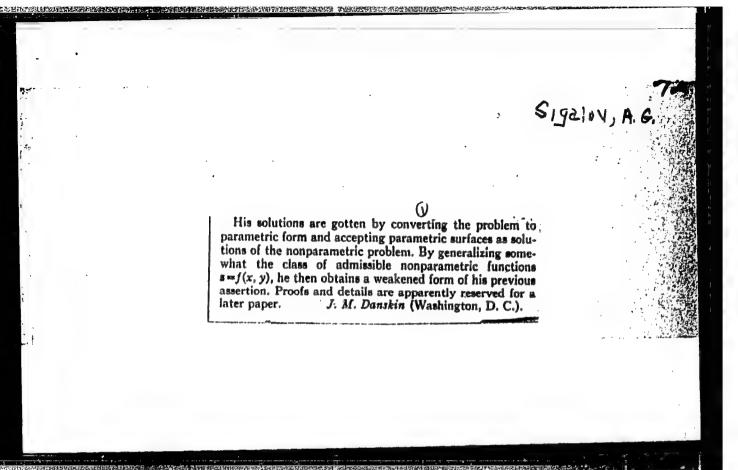
Existence and decomposition theorems are promised in a subsequent article.

G. W. Mackey.

5 19A 10V. A.G.

SIMMOT, A. J. Signlov, A. G. Two-dimensional problems of the calculus of variations in nonparametric form transformed into parametric form. Doklady Akad. Nauk SSSR (N.S.) 93, (Russian) 405-408 (1953). In two earlier papers [same Doklady (N.S.) 73, 891-894 (1950); 81, 741-744 (1951); these Rev. 12, 268; 13, 758] the author announced a theorem asserting the existence of an absolute minimum for the integral $\iint DF(x, y, s, p, q) dxdy$ when the admissible functions take on given values on the boundary and the integrand satisfies the condition $F \ge m(1+p^2+q^3)^{\alpha/2}$ when $p^3+q^2 \ge L^2$, m>0 and $\alpha>1$, and certain other conditions are satisfied. In the paper reviewed Until matten! Reviews May 19, 4 above he gave the details on which the first two papers were Analysis based. In the introduction to this last paper he again asserted this theorem for a>1. However, the proof given in the body of the paper holds only in the case a≥2. The author's object in the present note is to call attention to this error, which obviously weakens his results very much (for α>2 Tonelli proved approximately this theorem twenty years ago [Acta Math. 53, 325-346 (1929); Ann. Scuola Norm. Super. Pisa (2) 2; 89-130 (1933); see also Morrey, Bull. Amer. Math. Soc. 46, 439-458 (1940); these Rev. 2, 60] and Morrey extended it to a=2 [Univ. California Publ. Math. (N.S.) 1, 1-130 (1943); these Rev. 6, 180]), and then presents some results which partially restore the situation in the range $1 < \alpha < 2$.

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SIGALOV, A.G.

USSR/Mathematics - Variational calculus

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提到而达到1998年6月1月1日,在1998年2月1日,1998年1月1日,1998年1日,1998年1日,1998年1日,1998年1日,1998年1日,1998年1日,1998年1日,1998年1日,1998年1日

Author

Sigalov, A. G. (Gor'kiy)

MANAGER STATE STAT

Title

Two-dimensional problems of variational calculus in nonparametric

form which are transformed into parametric form.

Periodical

: Mat. sbor., 34(76), 385-406, May-Jun 1954

Abstract

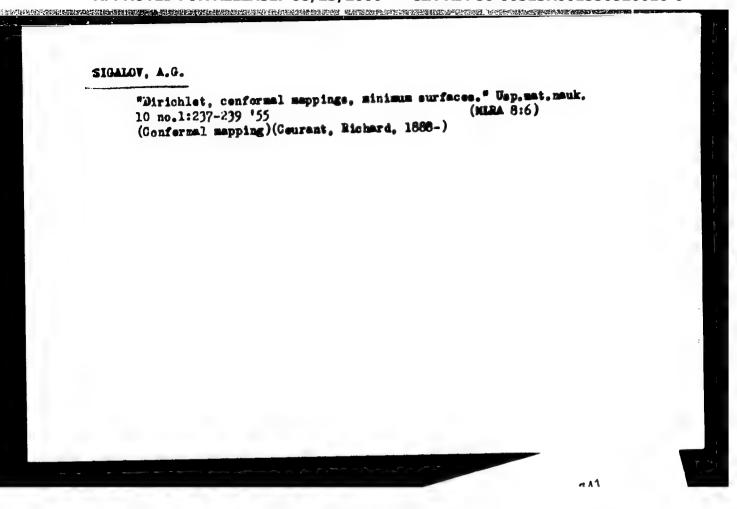
: Using a parametric transformation the author studies problems on the absolute minimum of the regular and quasiregular double integral I[f] = $\iint F(x,y,f,f_{x'},f_{y'}) dxdy$ under the general assumption where a equals or is greater than 1 in $F \ge m(1+(f_{x'})^2+(f_{y'})^1/2a$, following the classical work of S. N. Bernshteyn in 1941. The special case a = 2 was handled by the author in Trudy Moskovskogo matem.

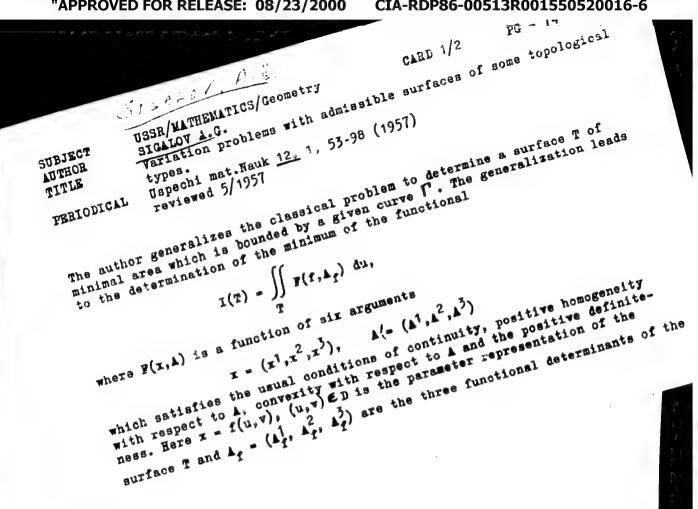
obshchestva, Vol 2(1953), 201-233.

Institution

Submitted

November 17, 1952





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16(1)-16,5400

Sigalov, A.G.

THE PERSON OF PHILE OF PHILE OF PHILE PROPERTY OF THE PHILE PHILE

AUTHOR: TITLE:

Conditions for the Compactness of a Family of Finite Topological

Surfaces.

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 6, pp 1203-1205 (USSR)

ABSTRACT:

Let all surfaces of a family of surfaces {T} have a finite topological type (H,r)(i.e. the region of variation of the parameters is homeomorphic to a surface of the genus H with r boundary curves) and lie in a bounded part of the surrounding space. Let the areas of the surfaces be bounded in their totality. It is shown that for the compactness of the family {T} with respect to the metric of Frechet it is necessary and sufficient that all surfaces of the family are uniformly non-degenerated (resp. not fibred) in a certain sense. 4 theorems are formulated.

There is 1 Soviet reference.

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom gosudarstvennom universitete imeni N.I.Lobachevskogo

(Radio Physical Scientific Research Institute at the Gor'kiy

State University imeni N.I.Lobachevskiy) October 9, 1959, by P.S.Aleksandrov, Academician PRESENTED:

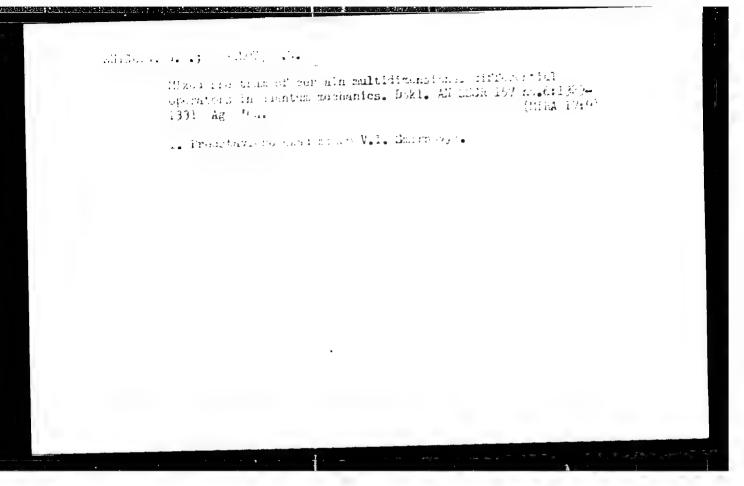
September 3, 1959 SUBMITTED:

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SIGALOV, A.G.

New algorithm in the theory of perturbations of a continuous spectrum. Fokl. AN SSSR 158 no.1:49-52 S-0 *64 (MIRA 17:8)

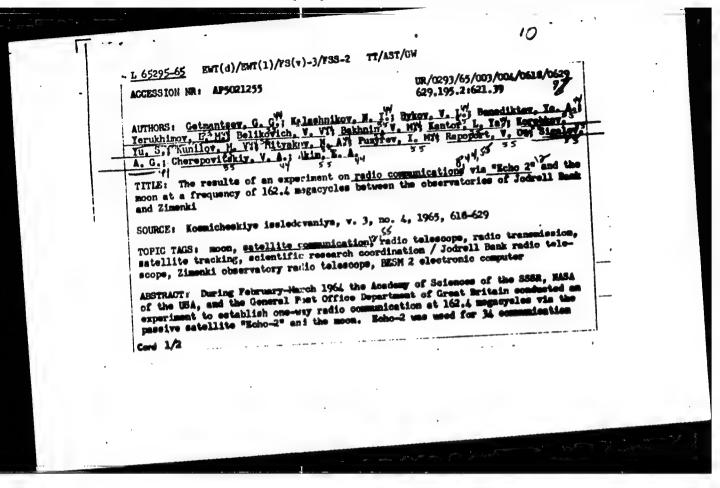
1. Predstafieno akademik za V.I. Emirnerym.



ZHISLIN, G.M., SIGALOV, A.G.

Mathematical theory of stomic spectra. Dokl. AN SSSR 163 no.2:323-325 J1 165. (MIRA 18:7)

1. Nauchno-issledovatel skiy radiofizicheskiy institut pri Gor'kovskom gosudarstvennom universitete im. N.I.Lobachevskogo. Submitted January 15, 1965.



L 65295-65

ACCESSION NR: AP5021255

moon was used for 15 test runs between the Echo tests. The transmitting equipment at Jodrell Bank and the receiving unit of the Zimenki Observatory are described in detail. Echo orbit information furnished by NASA, visual observations, and radio tracking data from fixed stations were fed to a BESS-2 electronic calculator which provided programmed tracking control. The received signal exhibited strong fluctuations separable into two periods: 1) a 1-2 minute fluctuation assecond period associated with small surface irregularities. The rapid fluctuations varied with each test. Voice signals, slowed by a factor of 8, were barely intelligible. Telegraph, teletype, and photofaceimile transmission, in general, mossages were received. The moon transmissions were not as clear but did furnish isation losses and 1-2 db for unknown causes. The intermational conservation was excellent, with the Soviet submitting a complete report. Offers for further exceptables.

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L 5048-66 EWT(d) IJP(c)

ACC NR: AP5021514

SOURCE CODE: UR/0038/65/029/004/0835/0860

AUTHORS: Zhislin, G. M.; Sigalov, A. G.

28

ORG: none

TITLE: On the spectrum of the energy operator in subspaces corresponding to irreducible representations of permutation groups for atoms with stationary nuclei

SOURCE: AN SSSR. Izvestiya. Seriya matematicheskaya, v. 29, no. 4, 1965, 835-860

TOPIC TAGS: quantum theory, Schroedinger equation, Coulomb interaction, group theory, electron energy level, differential operator, permutation, eigenvalue

ABSTRACT: The spectrum of the singular differential operator $H = T_n + V_n + W_n$ is studied, where T_n is the kinetic energy operator for n electrons, V_n is the Coulomb potential of the electrons in the field of an infinitely massive nucleus, and W_n is the sum of the pair Coulomb interaction operators for the electrons. He acts on the Hilbert space of complex-valued functions of 3n independent variables, possessing a definite permutation symmetry. Applying group-theoretical methods

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proves that the inequality

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IJP(c) L 13489-66 EWT(d) ACC NR AP6001672 UR/0038/65/029/006/1261/1272 SOURCE CODE: AUTHORS: Zhislin, C. M.; Sigalov, A. C. ORG: none TITLE: Some mathematical problems in the theory of atomic spectra SOURCE: AN SSSR. Izvestiya. Seriya matematicheskaya, v. 29, no. 6, 1965, 1261-1272 TOPIC TAGS: atomic spectrum, group theory, mathematic method, Hilbert space, Hamiltonian ABSTRACT: The spectra of the energy operator for atoms is studied mathematically in subspaces corresponding to irreducible representations of direct products of commutation, rotation, and inversion groups. The symmetry properties of atomic spectra are based on the solution of the equation $H\psi = \lambda \psi$. The three symmetry groups of this equation are: the commutation group S_n ; the rotation group R_n ; and the inversion group W. If the indices of the irreducible representations of these groups are denoted by K, I, W respectively, the wave equation has the solution when. The existence of this equation is proved in the following analysis where the spectrum of the operator H is investigated in a subspace corresponding to the irreducible representations of the S group. The proof consists of four theorems. Theorem I

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 $\lambda_{\bullet}(D_n^{\bullet}) \leqslant \mu_{n-1}^{\bullet}$

L 13489-66 ACC NR. AP6001672 always exists; the necessary and sufficient conditions for $\lambda_0(p_n^d)$ to be the point of discrete spectra for Ho are $\overline{\lambda_{\mathfrak{g}}(D_n^{\mathfrak{g}})} < \mu_{n-1}^{\mathfrak{g}}$, and that the point $\lambda \ge \mu_{n-1}$ forms the limiting spectrum of the H_n operator. Theorem II shows that for an irreducible type of symmetry of $\lambda_i^a < \lambda_1^a < \ldots < \lambda_{p-1}^a \quad (p > 1)$ the following inequality always holds $\lambda_p(D_n^e) < \mu_{n-1}^e$. Using theorems I and II, it is them proved that $H_{s-1}\phi^{(i)}=\mu\,\phi^{(i)},\quad i=1,2,\ldots,2l+1$ is the characteristic value of the operator H_{s-1} , and that for $\sigma = (k, 0, -1), n = 2, 0, 0, 0, -1 = 0, then <math>\lambda_0^{k, 0, +1} < \lambda_0^{d}$ at $\sigma = (0, 0, +1).$ Finally, for an arbitrary σ , if $\{\psi_m\} \in C^2_1(D_n)$, then

 $\int_{R_n} |\psi_m|^2 d\Omega + \int_{R_n} |\operatorname{grad} \psi_m|^2 d\Omega < C \quad (m = 1, 2, \dots).$ $\int_{\Omega} |\psi_m|^2 d\Omega \to 0 \quad (m \to \infty)$ for any bounded domain $\Omega \subset \mathbb{R}_n$, $\lim_{n \to \infty} L_n[\psi_n] > \mu_{n-1}^{\sigma}$

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- 1. SIGALOV, B. YA Shokhin, M. V.
- 2. USSR (600)
- 4. Grasses
- 7. Wintering of grass. biul. Glav bot. sada. no 152.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.